

## **ABSTRACT**

A combination Hall effect position sensor and switch for sensing the position of a  
5 moveable object. The sensor has a magnet that is attachable to the moveable object.  
The magnet has a pair of ends and a central portion. A linear magnetic flux sensor is  
positioned about the central portion of the magnet. The linear magnetic flux sensor  
generates an electrical signal indicative of a specific position of the movable object. A  
switch type magnetic flux sensor is positioned about one of the ends of the magnet.  
10 The switch type magnetic flux sensor generates an electrical signal that is indicative of  
the movable object reaching a pre-determined location.